COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION, OR C-I-P)

As a below named inventor, I hereby declare that:

☐ continuation-in-part (C-I-P).

TYPE OF DECLARATION

	•	
This d	leclaration is of the follo	wing type:
	(CI	heck one applicable item below)
	☐ design.	
NOTE:	: With the exception of a su or declaration is not treate M.P.E.P. § 714.16, 7th Ed	oplemental oath or declaration submitted in a reissue, a supplemental oath ad as an amendment under 37 CFR 1.312 (Amendments after allowance) ition.
1	supplemental.	· · · · · · · · · · · · · · · · · · ·
NOTE:	: If the declaration is for a continuation-in-part applica	in International Application being filed as a divisional, continuation or tion, do <u>not</u> check next item; check appropriate one of last three items.
(□ national stage of P	CT.
NOTE:	: If one of the following 3 iter CONTINUATION OR C-I-P.	ns apply, then complete and also attach ADDED PAGES FOR DIVISIONAL,
NOTE:	: See 37 C.F.R. § 1.63(d) (co declaration in the continual the inventors named in the	ntinued prosecution application) for use of a prior nonprovisional application ion or divisional application being filed on behalf of the same or fewer of prior application.
Ε	☐ divisional.	
E	continuation.	
NOTE:	continuation or divisional	ses and claims subject matter not disclosed in the prior application, or a application names an inventor not named in the prior application, a ion must be filed under 37 C.F.R. § 1.53(b) (application filing requirements n).

INVENTORSHIP IDENTIFICATION

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

MESOSTRUCTURED	TRANSITION	ALUMINAS	•	
				

SPECIFICATI N IDENTIFICATION

the specification of which:

(complete (a), (b), or (c))

(a) 🛭	is attached hereto.
NOTE:	"The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:
	"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing;
-	"(2) name of inventor(s), and attorney docket number which was on the specification as filed; or
	"(3) name of inventor(s), and title which was on the specification as filed."
	Notice of July 13, 1995 (1177 O.G. 60).
(b) [] was filed on, as ☐ Serial No. 0 /
	and was amended on (if applicable).
NOTE:	Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 C.F.R. § 1.67.
NOTE:	"The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:
	"(A) application number (consisting of the series code and the serial number, e.g., 08/123,456);
	"(B) serial number and filing date;
	"(C) attorney docket number which was on the specification as filed;
	"(D) title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or
	"(E) title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number, e.g., 08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."
	M.P.E.P. § 601.01(a), 7th Ed.
(c) [was described and claimed in PCT International Application No filed on and as
	amended under PCT Article 19 on (if any).

(Declaration and Power of Attorney [1-1]-page 2 of 7)



SUPPLEMENTAL DECLARATION (37 C.F.R. § 1.67(b))

	JOFF ELIMENTAL DEGLACION (ST. ST. ST. ST. ST. ST. ST. ST. ST. ST.	
(con	mplete the following where a supplemental declaration is being submitted)	
	I hereby declare that the subject matter of the	
	attached amendment	
	amendment filed on	
was part applicatio	of my/our invention and was invented before the filing date of the original on, above-identified, for such invention.	
ACKN	OWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR	
specificat	y state that I have reviewed and understand the contents of the above-identified tion, including the claims, as amended by any amendment referred to above.	
l ackno defined in	owledge the duty to disclose information, which is material to patentability as a 37, Code of Federal Regulations, § 1.56,	
	(also check the following items, if desired)	
図	and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and	
	in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 C.F.R. § 1.98.	
	PRIORITY CLAIM (35 U.S.C. §§ 119(a)-(d))	
a t a e S t ii ii e r S	The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).	
I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)–(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.		
	(a amplete (d) or (all	
	(complete (d) or (e))	
(d) 🔃	no such applications have been filed.	
(e) 🗆		

(Declaration and Power of Attorney [1-1]-page 3 of 7)



PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)–(d)

OUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119
			☐ YES NO ☐
-		·	☐ YES NO ☐
			☐ YES NO ☐
·			☐ YES NO ☐
· · · · · · · · · · · · · · · · · · ·			☐ YES NO ☐
	R BENEFIT OF PRIOR U. (34 U.S.C. the benefit under Title 35,	§ 119(e))	APPLICATION(S

PROVISIONAL	APPLICATION NUMBER	FILING DATE
/		
//	·	_
/		

CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. § 120

The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN PART (C-I-P) APPLICATION.

ALL' F	MAN APPLICATION ON THE STATE OF	N(S), <i>IF ANY</i> , FIL GN) PRIOR TO T	e ore than the ore or	12 MONTHS ATION

NOTE: If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR C-I-P APPLICATION for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.

POWER OF ATTORNEY

I hereby appoint the following practitioner(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

(list name and registration number)

Ian C. McLeod
Registration No. 20,931

Mary M. Moyne Registration No. 35,962

(check the following item, if applicable)

- I hereby appoint the practitioner(s) associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.
- Attached, as part of this declaration and power of attorney, is the authorization of the above-named practitioner(s) to accept and follow instructions from my representative(s).

NOTE: "Special care should be taken in continuation or divisional applications to ensure that any change of correspondence address in a prior application is reflected in the continuation or divisional application. For example, where a copy of the oath or declaration from the prior application is submitted for a continuation or divisional application filed under 37 CFR 1.53(b) and the copy of the oath or declaration from the prior application designates an old correspondence address, the Office may not recognize, in the continuation or divisional application, the change of correspondence address made during the prosecution of the prior application. Applicant is required to identify the change of correspondence address in the continuation or divisional application to ensure that communications from the Office are mailed to the current correspondence address. 37 CFR 1.63(d)(4)." § 601.03, M.P.E.P., 7th Edition.

SEND CORRESPONDENCE TO

DIRECT TELEPHONE CALLS TO: (Name and telephone number)

Address
Ian C. McLeod
McLEOD & MOYNE, P.C.
2190 Commons Parkway
Okemos, Michigan 48864

Ian C. McLeod
(517) 347-4100 - telephone
(517) 347-4103 - fax

(complete the following if applicable)

Since this filing is a
continuation divisional there is attached hereto a Change of Correspondence Address so that there will be no question as to where the PTO should direct all correspondence.

(Declaration and Power of Attorney [1-1]-page 5 of 7)

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

- NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.
- NOTE: Each inventor must be identified by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial, and by his/her residence, post office address and country of citizenship. 37 CFR § 1.63(a)(3).
- NOTE: Inventors may execute separate declarations/oaths provided <u>each</u> declaration/oath sets forth all the inventors. Section 1.63(a)(3) requires that a declaration/oath, inter alia, identify each inventor and prohibits the execution of separate declarations/oaths which each sets forth only the name of the executing inventor. 62 Fed. Reg. 53,131, 53,142, October 10, 1997,

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Thomas //	J.	Pinnavaia
(GIVEN NAME)	(MIDDLE INITIAL OR NAME) .	FAMILY (OR LAST NAME)
Inventor's signature	mps J. Dennavais	
Date July 27, 2001	Country of Citizenship	US
Residence East L	ansing, Michigan	
Post Office Address 5901	Sleepy Hollow	
East	Lansing, Michigan	48823

rull name or second joint inventor, if any				
Zhaorong		Zhang		
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)		
Inventor's signature	8. Change			
Date July 27, avol	Country of Citizenship	China		
Residence Eas	t Lansing, Michigan			
Post Office Address	1615H Spartan Village			
	East Lansing, Michigan	48823		

Full name of third jo	int inventor, if any	
Randall (GIVEN NAME)	(MIDDLE, INITIAL OR NAME)	Hicks FAMILY (OR LAST NAME)
Inventor's signature.	RadallWHick	PAINLY (OR EAST NAME)
Date July 27, 2001	Country of Citizenship	U.S.
Residence	Lansing, Michigan	
Post Office Address	312 N. Jenison Avenue	
	Lansing, Michigan 48915	



(check proper box(es) for any of the following added page(s) that form a part of this declaration)

	Signature for fourth and subsequent joint inventors. Number of pages added
	* * *
0	Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. <i>Number of pages added</i>
•	* * *
	Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. <i>Number of pages added</i>
	• • •
	Added page for signature by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)
	* * *
	Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.
	☐ Number of pages added
	Authorization of practitioner(s) to accept and follow instructions from representative.
	lif no further pages form a part of this Declaration
t	(if no further pages form a part of this Declaration, hen end this Declaration with this page and check the following item)
•	the control of the experimental transfer that the control of the c

This declaration ends with this page.

(Declaration and Power of Attorney [1-1]-page 7 of 7)

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Prac	ctition Docket N	MSU 4.1-553 PATENT	
×		Pinnavaia, Zhaorong Zhang, Randall Hicks	s and
	Application No.	Patent No.	
	Filed on	☐ Issued on	
Titl	e: MESOSTRUCTURED	TRANSITION ALUMINAS	
		ENT OF STATUS AS SMALL ENTITY .27(a)(3))—NONPROFIT ORGANIZATION	
Lhe	ereby state that I am an of	fficial empowered to act on behalf of the nonprofit organization	,
	ified below:	Board of Trustees operating	
		on Michigan State University	
	· · · · · · · · · · · · · · · · · · ·	ation 238 Administration Building	
<u>Ea</u>	st Lansing, Mich	iigan 48824	
ГҮРІ	E OF NONPROFIT OF	RGANIZATION	
	☑ University or other	institution of higher education (located in any country)	
		nternal Revenue Service Code (26 U.S.C. 501(a) and 501(c)(3))	
	of America (35 U.S	or educational under statute of state of the United States S.C. 201(i))	
-	(Name of State)	
	(Citation of Statute		
		ax exempt under Internal Revenue Service Code (26 U.S.C. ii)), if located in the United States of America	
	United States of A	onprofit Scientific or Educational under statute of state of the merica or would be tax exempt under the Internal Revenue J.S.C. 501(a) and 26 U.S.C. 501(c)(3)) if located in the United	
	(Name of State)	• •
	(Citation of Statute		
rgani ne Ui	ereby state that the non- ization, as defined in 37 nited States Patent and	profit organization identified above qualifies as a nonprofit C.F.R. § 1.27(a)(3), for purposes of paying reduced fees to Trademark Office under Sections 41(a) and (b) of Title 35,	
HILLEC	_	ard to the invention described in	•
	•	ed herewith, with title as listed above.	
	the application ider	·	
	☐ the patent identified	1 above	

(Small Entity-Non-Profit [7-3]-page 1 of 3)

I hereby state that rights under contract or law have been conveyed to, and remain with, the nonprofit organization, with regard to the above identified invention.

If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who would not qualify as a person under 37 C.F.R. § 1.27(a)(1), if that person made the invention, or by any concern that would not qualify as a small business concern under 37 C.F.R. § 1.27(a)(2), or a nonprofit organization under 37 C.F.R. § 1.27(a)(3)

*NOTE: Separate statements should be obtained from each named person, concern or organization having rights to the invention as to their status as small entities.

Each such person, concern or organization having any rights in the invention is listed below:

				son, concern, or organization or organization		d holow
Name	 					
Addre	ess _					
	<u>.</u>		e.			
□ Name				SMALL BUSINESS CONCERN		NONPROFIT ORGANIZATION
					:	
	INDIN	/IDUAL		SMALL BUSINESS CONCERN	0	NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any charge in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 C.F.R. § 1.27(g)(2))

NOTE: "The presentation to the Office (whether by signing, filing, submitting, or later advocating) of any paper by a party, whether a practitioner or non-practitioner, constitutes a certification under § 10.18(b) of this chapter. Violations of § 10.18(b)(2) of this chapter by a party, whether a practitioner or non-practitioner, may result in the imposition of sanctions under § 10.18(c) of this chapter. Any practitioner violating § 10.18(b) may also be subject to disciplinary action. See §§ 10.18(d) and 10.23(c)(15)." 37 C.F.R. § 1.4(d)(2).

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Name of P Signing Norman Pollack	
Title in Organ zation Assistant Vice President, for Intellectual Proper	ty.
Address of Person Signing MICHIGAN STATE UNIVERSITY, 238 Administration	on.
Building, East Lansing, Michigan 48824	
SIGNATURE Date 7/23/0/	

Norman M. Pollack, Ph.D.

Assistant Vice President for Intellectual Property
Michigan State University

(Small Entity-Non-Profit [7-3]-page 3 of 3)